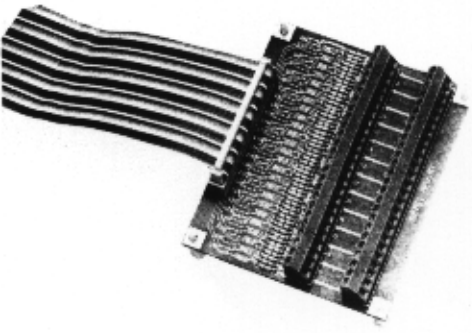
AX751
Universal Screw Terminal Panel



Features

- Low cost universal screw terminal panel complete with 1 meter 50-pin flat cable for connection with a variety of AXIOM series boards
- Blank pads accommodate applications such as break-detection, low pass filter, current shunt and voltage attenuator
- Screw clamp terminal blocks permit reliable connection of signals
- Table-top mounting using nylon standoffs

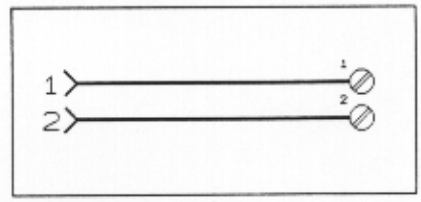
General Description

The AX751 is an universal screw terminal panel which provides convenient connection points for signals from any one of AXIOM series boards. The panel has one 50-pin ribbon cable connector which connects the AX751 to an analog or digital I/O board of AXIOM.

The AX751 was designed specially to accommodate the requirements of analog input boards for passive signal conditioning components. User may accommodate applications such as break-detection, low pass filter, current shunt and voltage attenuator, by adding components on the reserved pad.

Application

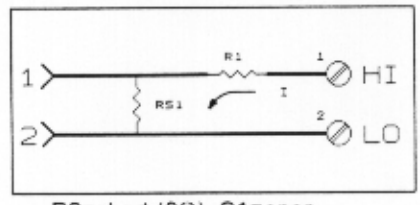
1. Simple wiring



R1, R2=short (0Ω)

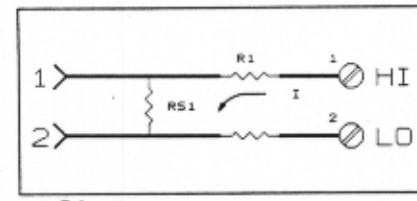
2. Voltage Attenuator

(1) For Single-ended Input



R2=short (0Ω), C1=open
Attenuation=RS1/(R1+RS1)

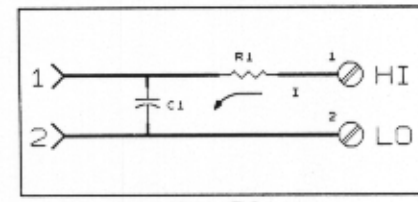
(2) For Differential Input



C1=open
Attenuation=RS1/(R1+R2+RS1)

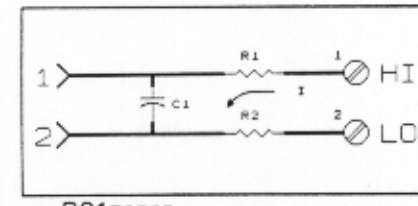
3. (-3dB) Low Pass Filter

(1) For Single-ended Input



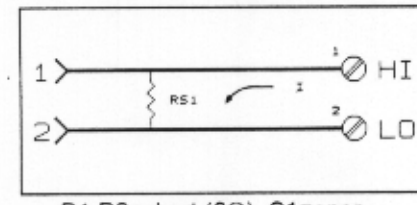
R2=short (0Ω), RS1=open
f-3dB=1/(2πR1C1)

(2) For Differential Input



RS1=open
f-3dB=1/2π(R1+R2)C1

4. 0-20mA Current-loop Input



R1,R2=short (0Ω), C1=open
RS1=250Ω(0.05% Tolerance) for 0 to 5V Conversion

Ordering Guide

- **AX751**
  Universal Screw Terminal Panel, including user's manual, 1 meter cable and 50-pin connector